OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC205857

Arylsulfatase D (ARSD) (NM_001669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arylsulfatase D (ARSD) (NM_001669) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arylsulfatase D
Synonyms:	ASD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC205857 representing NM_001669
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGATCCGCCGCGCGGAGGGGACGCGCCGCGCCCGCCGCCAGGGACTCTTTGCCGGTGCTACTGTTTT
TATGCTTGCTTCTGAAGACGTGTGAACCTAAAACTGCAAATGCCTTTAAACCAAATATCCTACTGATCAT
GGCGGATGATCTAGGCACTGGGGATCTCGGTTGCTACGGGAACAATACACTGAGAACGCCGAATATTGAC
CAGCTTGCAGAGGAAGGTGTGAGGCTCACTCAGCACCTGGCGGCCGCCCCGCTCTGCACCCCAAGCCGAG
CTGCATTCCTCACAGGGAGACATTCCTTCAGATCAGGCATGGACGCCAGCAATGGATACCGGGCCCTTCA
GTGGAACGCAGGCTCAGGTGGACTCCCTGAGAACGAAACCACTTTTGCAAGAATCTTGCAGCAGCATGGC
TATGCAACCGGCCTCATAGGAAAATGGCACCAGGGTGTGAATTGTGCATCCCGCGGGGATCACTGCCACC
ACCCCCTGAACCACGGATTTGACTATTTCTACGGCATGCCCTTCACGCTCACAAACGACTGTGACCCAGG
CAGGCCCCCCGAAGTGGACGCCGCCCTGAGGGCGCAGCTCTGGGGTTACACCCAGTTCCTGGCGCTGGGG
ATTCTCACCCTGGCTGCCGGCCAGACCTGCGGTTTCTTCTCTGTCTCCGCGAGAGCAGTCACCGGCATGG
CCGGCGTGGGCTGCCTGTTTTTCATCTCTTGGTACTCCTCCTTCGGGTTTGTGCGACGCTGGAACTGTAT
TCTGATGAGAAACCATGACGTCACGGAGCAACCCATGGTTCTGGAGAAAACAGCGAGTCTTATGCTAAAG
GAAGCTGTTTCCTATATTGAAAGACACAAGCATGGGCCATTTCTCCTCTTCCTTTCTTTGCTGCATGTGC
ACATTCCCCTTGTGACCACGAGTGCATTCCTGGGGAAAAGTCAGCATGGCTTATATGGTGATAATGTGGA
GGAGATGGACTGGCTCATAGGTAAGGTTCTTAATGCCATCGAAGACAATGGTTTAAAGAACTCAACATTC
ACGTATTTCACCTCTGACCATGGAGGACATTTAGAGGCAAGAGATGGACACAGCCAGTTAGGGGGATGGA
ACGGAATTTACAAAGGTGGGAAGGGCATGGGAGGATGGGAAGGTGGGATCCGCGTGCCCGGGATCTTCCA
CTGGCCGGGGGTGCTCCCGGCCGGCCGAGTGATTGGAGAGCCCACGAGCCTGATGGACGTGTTCCCTACT
GTGGTCCAGCTGGTGGGTGGCGAGGTGCCCCAGGACAGGGTGATTGATGGCCACAGCCTGGTACCCTTGC
TGCAGGGAGCTGAGGCACGCTCGGCACATGAGTTCCTGTTTCATTACTGTGGGCAGCATCTTCACGCAGC
ACGCTGGCACCAGAAGGACAGTGGAAGCGTCTGGAAGGTTCATTACACGACCCCGCAGTTCCACCCCGAG
GGAGCGGGGGCCTGCTACGGCCGAGGCGTCTGCCCATGCTCCGGGGAGGGCGTGACCCATCACAGACCCC
CTTTGCTCTTTGACCTCTCCAGGGACCCCTCCGAGGCACGGCCCCTGACCCCCGACTCCGAGCCCCTGTA
CCACGCCGTGATAGCAAGGGTAGGTGCCGCGGTGTCGGAGCATCGGCAGACCCTGAGTCCTGTGCCCCAG
CAGTTTTCCATGAGCAACATCCTGTGGAAGCCGTGGCTGCAGCCGTGCTGCGGACATTTCCCGTTCTGTT
CATGCCACGAGGATGGGGATGGCACCCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205857 representing NM_001669
Red=Cloning site Green=Tags(s)

MRSAARRGRAAPAARDSLPVLLFLCLLLKTCEPKTANAFKPNILLIMADDLGTGDLGCYGNNTLRTPNID
QLAEEGVRLTQHLAAAPLCTPSRAAFLTGRHSFRSGMDASNGYRALQWNAGSGGLPENETTFARILQQHG
YATGLIGKWHQGVNCASRGDHCHHPLNHGFDYFYGMPFTLTNDCDPGRPPEVDAALRAQLWGYTQFLALG
ILTLAAGQTCGFFSVSARAVTGMAGVGCLFFISWYSSFGFVRRWNCILMRNHDVTEQPMVLEKTASLMLK
EAVSYIERHKHGPFLLFLSLLHVHIPLVTTSAFLGKSQHGLYGDNVEEMDWLIGKVLNAIEDNGLKNSTF
TYFTSDHGGHLEARDGHSQLGGWNGIYKGGKGMGGWEGGIRVPGIFHWPGVLPAGRVIGEPTSLMDVFPT
VVQLVGGEVPQDRVIDGHSLVPLLQGAEARSAHEFLFHYCGQHLHAARWHQKDSGSVWKVHYTTPQFHPE
GAGACYGRGVCPCSGEGVTHHRPPLLFDLSRDPSEARPLTPDSEPLYHAVIARVGAAVSEHRQTLSPVPQ
QFSMSNILWKPWLQPCCGHFPFCSCHEDGDGTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6238_g04.zip

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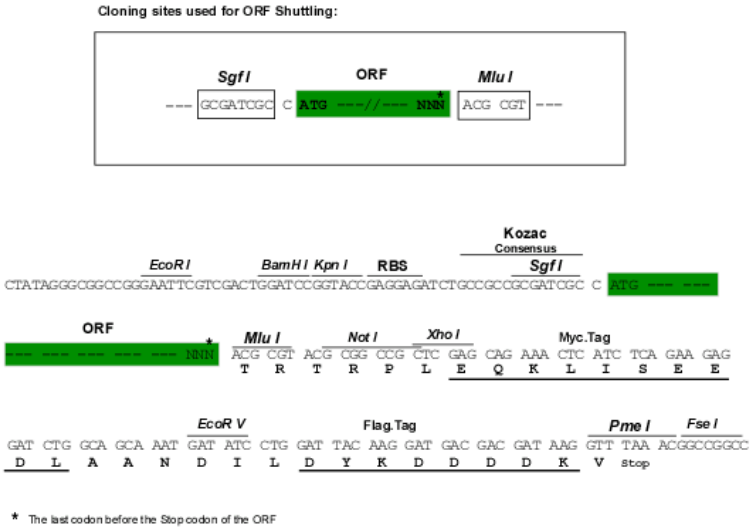
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001669

ORF Size: 1779 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_001669.4

RefSeq Size: 5159 bp

RefSeq ORF: 1782 bp

Locus ID: 414

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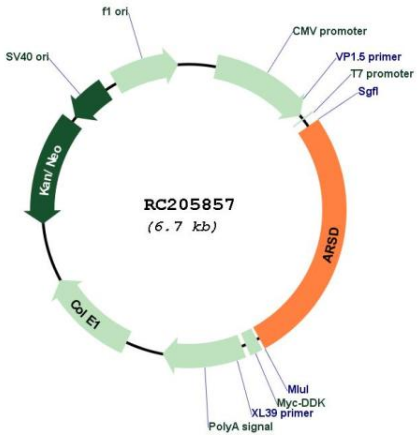
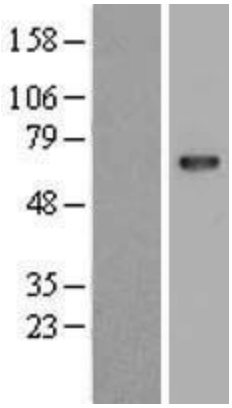
UniProt ID:	P51689
Cytogenetics:	Xp22.33
Domains:	Sulfatase
Protein Families:	Druggable Genome, Transmembrane
MW:	64.86 kDa
Gene Summary:	The protein encoded by this gene is a member of the sulfatase family. Sulfatases are essential for the correct composition of bone and cartilage matrix. The encoded protein is postranslationally glycosylated and localized to the lysosome. This gene is located within a cluster of similar arylsulfatase genes on chromosome X. A related pseudogene has been identified in the pseudoautosomal region of chromosome Y. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RC205857



Western blot validation of overexpression lysate (Cat# [LY419791]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205857 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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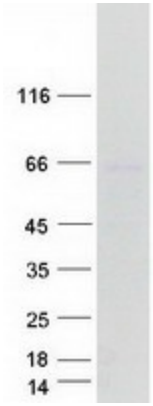

Coomassie blue staining of purified ARSD protein (Cat# [TP305857]). The protein was produced from HEK293T cells transfected with ARSD cDNA clone (Cat# RC205857) using MegaTran 2.0 (Cat# [TT210002]).

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